

PRESSURE PROBE

Full scale pressure	Maximum overpressure	Resolution	ORDERING CODES			Accuracy From 20 to 25°C	Working temperature	Connection
			Differential pressure	Relative pressure (compared to atmosphere)	Absolute pressure			
			NON insulated membrane	Insulated membrane	Insulated membrane			
10 mbar	20 mbar	0.01 mbar	• TP705-10MBD			0.5 % f.s.	0...+60 °C	Tube Ø 5 mm
20 mbar	40mbar	0.01 mbar	• TP705-20MBD			0.5 % f.s.	0...+60 °C	Tube Ø 5 mm
50 mbar	100 mbar	0.01 mbar	TP705-50MBD			0.5 % f.s.	0...+60 °C	Tube Ø 5 mm
100 mbar	200 mbar	0.1 mbar	TP705-100MBD			0.25 % f.s.	0...+60 °C	Tube Ø 5 mm
				TP704-100MBGI		0.25 % f.s.	-30...+80 °C	¼ BSP
200 mbar	400 mbar	0.1 mbar	TP705-200MBD			0.25 % f.s.	0...+60 °C	Tube Ø 5 mm
				TP704-200MBGI		0.25 % f.s.	-30...+80 °C	¼ BSP
400 mbar	1000 mbar	0.1 mbar		TP704-400MBGI		0.25 % f.s.	-40...+125 °C	¼ BSP
500 mbar	1000 mbar	0.1 mbar	TP705-500MBD			0.25 % f.s.	0...+60 °C	Tube Ø 5 mm
600 mbar	1000 mbar	0.1 mbar		TP704-600MBGI		0.25 % f.s.	-40...+125 °C	¼ BSP
			TP705-1BD			0.25 % f.s.	0...+60 °C	Tube Ø 5 mm
1 bar	2 bar	1 mbar			TP705BARO	0.25 % f.s.	0...+60 °C	Tube Ø 5 mm
				TP704-1BGI		0.25 % f.s.	-40...+125 °C	¼ BSP
					TP704-1BAI	0.25 % f.s.	-40...+125 °C	¼ BSP
2 bar	4 bar	1 mbar	TP705-2BD			0.25 % f.s.	0...+60 °C	Tube Ø 5 mm
				TP704-2BGI		0.25 % f.s.	-40...+125 °C	¼ BSP
					TP704-2BAI *	0.25 % f.s.	-25...+85 °C	¼ BSP
5 bar	10 bar	1 mbar		TP704-5BGI**		0.25 % f.s.	-40...+125 °C	¼ BSP
					TP704-5BAI *	0.25 % f.s.	-25...+85 °C	¼ BSP
10 bar	20 bar	0.01 bar		TP704-10BGI**		0.25 % f.s.	-40...+125 °C	¼ BSP
					TP704-10BAI *	0.25 % f.s.	-25...+85 °C	¼ BSP
20 bar	40 bar	0.01 bar		TP704-20BGI		0.25 % f.s.	-40...+125 °C	¼ BSP
					TP704-20BAI *	0.25 % f.s.	-25...+85 °C	¼ BSP
50 bar	100 bar	0.01 bar		TP704-50BGI		0.25 % f.s.	-40...+125 °C	¼ BSP
					TP704-50BAI *	0.25 % f.s.	-25...+85 °C	¼ BSP
100 bar	200 bar	0.1 bar		TP704-100BGI		0.25 % f.s.	-40...+125 °C	¼ BSP
					TP704-100BAI *	0.25 % f.s.	-25...+85 °C	¼ BSP
200 bar	400 bar	0.1 bar		TP704-200BGI		0.25 % f.s.	-40...+125 °C	¼ BSP
					TP704-200BAI *	0.25 % f.s.	-25...+85 °C	¼ BSP
500 bar	1000 bar	0.1 bar		TP704-500BGI		0.25 % f.s.	-40...+125 °C	¼ BSP
	700 bar	0.1 bar			TP704-500BAI *	0.25 % f.s.	-25...+85 °C	¼ BSP

* Ceramic diaphragm • Only report of calibration, no Accredia certificate

** Models available also with range starting from -1 bar (TP704-5BNG = -1...5 bar; TP704-10BNG = -1...10 bar)

All TP704 and TP705 series Delta OHM probes can be connected to the PP471 module.

Technical characteristics of PP471 module

Accuracy	±0.05% of full scale
Peak duration	≥ 5ms
Peak accuracy	±0.5% of full scale
Peak dead band	≤ 2% of full scale
Cable	L= 2 m; 8-pole DIN 45326 female connector

PRESSURE UNITS OF MEASUREMENTS

CONVERSION FACTORS

kPa	Mpa	bar	mbar	mmH ₂ O	Torr mmHg	at Kg/cm ²	Atm	Inch H ₂ O	Inch Hg	Psi lpf/in ²
1	1•10 ³	1•10 ³	10	102.0	7.501	10.20•10 ³	9.869•10 ³	4.016	0.2953	0.14505
1•10 ³	1	10	1•10 ⁴	102.0•10 ³	7501	10.20	9.869	4016	295.3	145.05
100	0.1	1	1•10 ³	10.20•10 ³	750.1	1.020	0.9869	401.6	29.53	14.505
0.1	1•10 ⁻⁴	1•10 ⁻³	1	10.20	0.7501	1.020•10 ⁻³	0.9869•10 ⁻³	0.4016	29.53•10 ⁻³	14.505•10 ⁻³
9.807•10 ⁻³	9.807•10 ⁻⁶	9.807•10 ⁻⁶	9.807•10 ⁻³	1	73.56•10 ⁻³	1•10 ⁻⁴	96.78•10 ⁻⁶	0.03937	2.896•10 ⁻³	1.4224•10 ⁻³
0.13332	133.32•10 ⁻³	1.333•10 ⁻³	1.333	13.59	1	1.359•10 ⁻³	1.316•10 ⁻³	0.5351	3.937•10 ⁻²	0.01934
98.07	98.07•10 ⁻³	0.9807	980.7	1•10 ⁴	735.6	1	0.9678	393.7	28.96	14.224
101.3	0.1013	1.013	1013	10.33•10 ³	760	1.033	1	406.7	29.92	14.68
0.2491	0.2491•10 ⁻³	2.491•10 ⁻³	2.491	25.4	1.8684	2.54•10 ⁻³	2.458•10 ⁻³	1	7.355•10 ⁻²	36.126•10 ⁻³
3.386	3.386•10 ⁻³	3.386•10 ⁻²	33.86	345.3	25.4	3.453•10 ⁻²	3.342•10 ⁻²	13.60	1	0.4912
6.8948	6.8948•10 ⁻³	6.8948•10 ⁻²	68.948	703.1	51.715	70.31•10 ⁻³	68.948•10 ⁻³	27.68	2.036	1

